

X R[®] 800D

X R[®] 1200D

X R[®] 1600D

O P E R A T I N G G U I D E



Intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

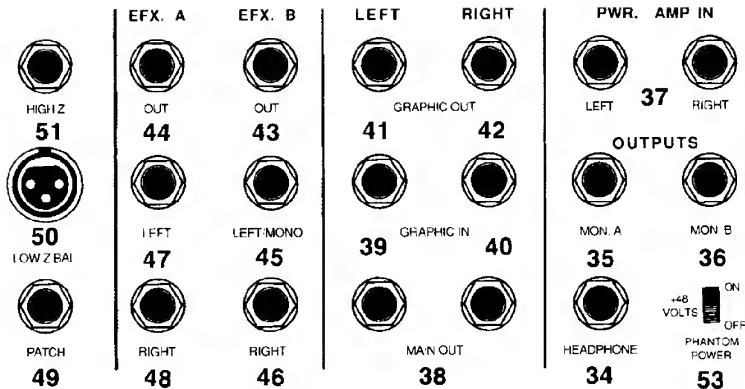


Intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

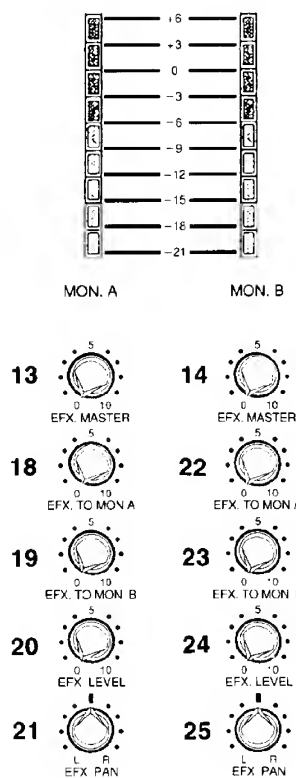
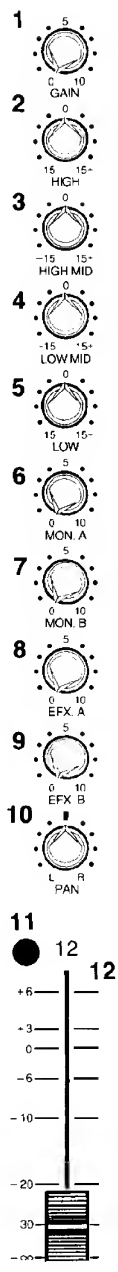
CAUTION Risk of electrical shock — DO NOT OPEN!

CAUTION To reduce the risk of electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

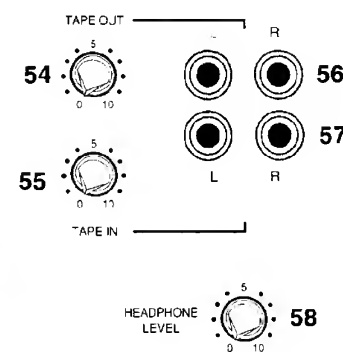
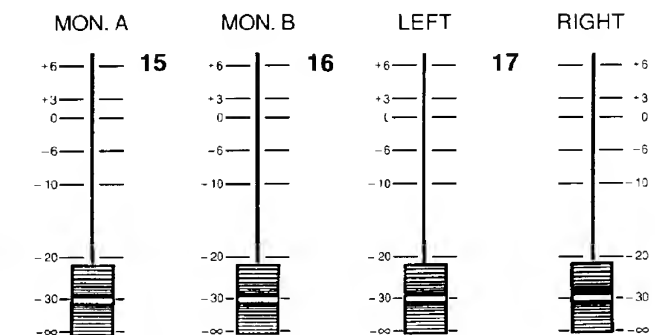
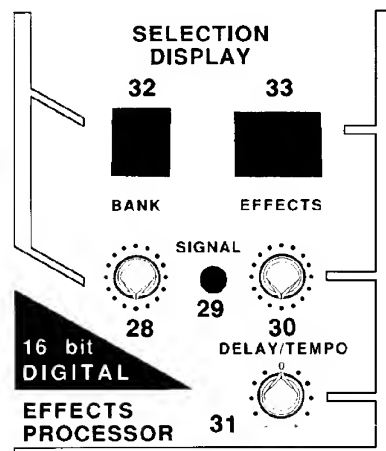
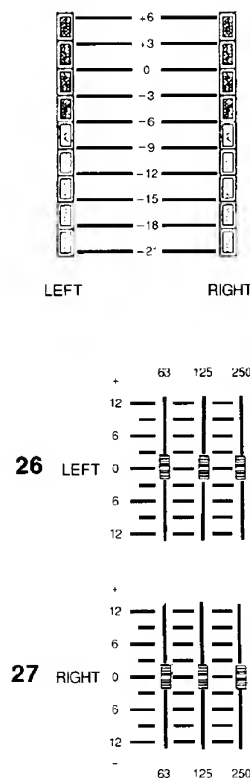
WARNING To prevent electrical shock or fire hazard, do not expose this appliance to rain or moisture. Before using this appliance, read the operating guide for further warnings.



BANK		EFFECTS MENU																							
1	SMALL REVERBS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16								
2	MEDIUM REVERBS	X <1 SEC				1-2 SEC				2-3 SEC				>3 SEC											
3	LARGE REVERBS	<1 SEC				1-2 SEC				2-3 SEC				>3 SEC											
4	EXTRA LARGE REVERBS	<1 SEC				1-3 SEC				3-10 SEC				>10 SEC											
5	GATED REVERBS	<3 SEC				3-5 SEC				5-10 SEC				>10 SEC											
6	DELAYS	GATED								REVERSE															
7	ECHOS (L/R/MS)	SPATIAL								PANNING															
8	MULTI EFFECTS	75-50				150-125				275-137				500-250				375-500							
		ECHOS								REVERB & ECHOS								X							



52



INPUT CHANNEL

GAIN (1)

Varies the gain of the channel input stage to allow a wide input dynamic range. Proper adjustment of the input gain is aided by observance of the LIMIT LED.

HIGH EQ (2)

An active tone control (shelving type, ± 15 dB) that varies the high frequency range.

HIGH MID (3)

An active control capable of 12 dB boost or cut at 2.2 kHz.

LOW MID (4)

An active control capable of 12 dB boost or cut at 350 Hz.

LOW (5)

An active tone control (shelving type, ± 15 dB) that varies the low frequency boost or cut.

MONITOR A (6)

Controls the channel Monitor A mix level. The signal from this controls is "pre" EQ and "pre" fader, allowing channel fader adjustment without affecting the Monitor mix.

MONITOR B (7)

Controls the channel Monitor B mix level. The signal from this control is "pre" EQ and "pre" fader, allowing channel fader adjustment without affecting the Monitor mix.

EFFECTS A (8)

Controls the channel Effects A mix level. This control regulates the amount of signal routed to the Effects A master. (Post Fader) (See Effects A Master 13)

EFFECTS B (9)

Controls the channel Effects B mix level. This control regulates the amount of signal routed to the Effects B master. Post fader. (See Effects B Master 14.)

PAN (10)

For stereo operation, PAN is used to assign channel output to Left, Right, or in between. For mono operation, Channel is assigned to either Right or Left master.

LIMIT LED (11)

Indicates when the signal level in the channel is too high. It illuminates when the channel signal reaches approximately +12 dBV.

CHANNEL LEVEL FADER (12)

Determines the level of the channel in the left and right mixes. Calibration is in dB and level is variable from $-\infty$ (off) to +6 dB. This should be operated near the "0 dB" (unity gain) indicator whenever possible to assure an optimum balance between channel noise and headroom.

EFX MASTERS

EFX. A MASTER (13)

Determines the overall effects level supplied to the Effects A output jack, and routes signal to input of built-in effects processor. When using built-in effects processor, adjust this control until "Active LED" on processor is illuminated. (See Bank Select 28, and Effects Select 30)

EFX. B MASTER (14)

Determines the overall effects level supplied to the Effects B output jack.

MONITOR A MASTER FADER (15)

Determines the overall signal level at the Monitor A output jack.

MONITOR B MASTER FADER (16)

Determines the overall signal level at the Monitor B output jack.

LEFT/RIGHT (17)

These are the masters for all channels and determine the overall main or "house" mix levels.

EFX A RETURN

EFX. TO MONITOR A (18)

Allows the "A" effects return to be assigned to Monitor A.

EFX. TO MONITOR B (19)

Allows the "A" effects return to be assigned to Monitor B.

EFX. A LEVEL (20)

When an outboard effects device is connected into the Effects A patch loop, this control regulates the level of the effect in the Left or Right mix. Must be used together with the Effects Pan.

EFFECTS A PAN (21)

Allows the effects return signal to be assigned to Left Main, Right Main, or both.

EFX B RETURN**EFX. TO MONITOR A (22)**

Allows the "B" effects return to be assigned to Monitor A.

EFX. TO MONITOR B (23)

Allows the "B" effects return to be assigned to Monitor B.

EFX. B LEVEL (24)

When an outboard effects device is connected into the Effects B patch loop, this control regulates the level of the effect in the Left or Right mix. Must be used together with the Effects Pan.

EFFECTS B PAN (25)

Allows the effects return signal to be assigned to Left Main, Right Main, or both.

GRAPHIC EQ (LEFT & RIGHT)**9-BAND GRAPHIC EQ (LEFT) (26)**

Provides ± 12 dB equalization at each center frequency. Equalization effect is functional on left output signal unless graphic left input is engaged.

9-BAND GRAPHIC EQ (RIGHT) (27)

Provides ± 12 dB equalization at each center frequency. Equalization effect is functional on right output signal unless graphic right input is engaged.

Operation Note: The equalizers are designed to provide room equalization, feedback control and system tone control. No amount of equalization will correct an acoustically bad room/mic/speaker arrangement or completely correct the response curve of a poor loudspeaker. Always begin with all sliders in the "0" position and avoid excessively cutting large segments of the audio passband, which would limit the system's dynamic range.

DIGITAL EFFECTS PROCESSOR**BANK SELECT DIAL (28)**

Allows selection of the effects in Bank 1 to Bank 8. The effects available in each bank are designated in the table above. (Bank selected is displayed in the Bank LED Display 32)

ACTIVE LED (29)

A bi-color (red or green) LED that lights green when the minimum signal level necessary for operation of the processor and lights red when the maximum signal level of the processor is present at the input of the processor. The LED illuminates green approximately 20 dB below the onset of clipping and illuminates red approximately 6 dB below clipping.

EFFECTS SELECT (30)

Allows selection of any of the 16 effects in Banks 1 through 16. The 1 position in Bank 1 is bypass. The effects available in all banks are designated on the effects menu above. (The effect selected is displayed in the Effects LED Display 33.)

DELAY/TEMPO (31)

After selecting the desired delay or echo, the delay/echo length may be varied with this control to synchronize with music tempo.

BANK LED DISPLAY (32)

A seven-segment LED display is provided to indicate bank selected.

EFFECTS LED DISPLAY (33)

Dual seven-segment LED display is provided to indicate effects selection.

MASTER PATCH**HEADPHONE JACK (34)**

This stereo jack allows signal to flow to both sides of any stereo headset. Tip = Left, Ring = Right

MONITOR A OUT (35)

Provides the signal for an external monitor amplifier/speaker system. The level is determined by the channel monitor and master monitor controls.

MONITOR B OUT (36)

Provides the signal for an external monitor amplifier/speaker system. The level is determined by the channel monitor and master monitor controls.

POWER AMP INPUT L/R (37)

Provides "insert" points to both internal power amps at their respective inputs. These jacks are the switching type and "break" the signal chain at this point.

MAIN OUT LEFT/RIGHT (38)

These outputs are from the Left and Right Mains and the levels are adjusted by the Left and Right controls.

GRAPHIC INPUT L (39)

Provides "insert" point at the input to Graphic L. This jack is the switching type and breaks the signal chain at this point.

GRAPHIC INPUT R (40)

Provides "insert" point at the input Graphic R. This jack is the switching type and breaks the signal chain at this point.

GRAPHIC L OUT (41)

Provides output from Graphic Left.

GRAPHIC R OUT (42)

Provides output from Graphic Right.

EFX. B OUTPUT (43)

Output for supplying signals to external effects or signal processing equipment.

EFX. A OUTPUT (44)

Output for supplying signals to external effects or signal processing equipment.

EFX. B LEFT/MONO RETURN (45)

Mono Effects devices connected to Effects B may be returned at this point. This input supplies Mono signal to both Left and Right master outputs. When stereo Effects device is connected to Effects B, the Left output from the Effects device should be patched in at this point. (See right return) (See stereo effects patch diagram)

EFX. B RIGHT RETURN (46)

Use when "Stereo" Effects device is used. When Stereo Effects device is connected to Effects B, the Right output from the Effects device should be patched in at this point. (See Left/Mono Return) (See stereo effects patch diagram)

EFX. A LEFT RETURN (47)

When stereo Effects device is connected to Effects A, the Left output from the Effects device should be patched in at this point. (See right return) (See stereo effects patch diagram)

EFX. A RIGHT RETURN (48)

Use when "Stereo" Effects device is used. When Stereo Effects device is connected to Effects A, the Right output from the Effects device should be patched in at this point. (See Left Return) (See stereo effects patch diagram)

CHANNEL PATCH**PATCH (49)**

This jack allows individual channel patching after the input GAIN control and before the channel equalization. This stereo jack is wired so that if a phone plug is inserted to the first detent only, the send from the channel will be accessed without interrupting the normal channel signal flow.

If a stereo phone plug is inserted fully into the jack, the channel "send" connects to the tip and the ring portion becomes the channel "return". In this mode, normal channel signal flow is interrupted and equipment connected via the stereo phone plug is inserted in-line.

LOW Z IN (50)

For use with low impedance microphones or low level sources equipped with an XLR connector.

HIGH Z IN (51)

For use with high impedance microphones or high level sources equipped with a 1/4" phone plug.

MISC**LED ARRAYS (52)**

Four 10 segment, LED arrays are provided to visually indicate the levels of the left and right mixes, and Monitor A, Monitor B mixes.

PHANTOM POWER ON/OFF (53)

This switch selects 48V DC phantom power for all channels. In the "Off" position no phantom powering is available on any channels.

TAPE OUT LEVEL (54)

Controls Stereo signal level at Tape Output jacks. Signal level at this point is independent of Left and Right master faders.

TAPE IN LEVEL (55)

Controls level of signals patched in at Tape Input jacks.

TAPE OUT JACKS (56)

Provides Stereo signal to be supplied to Left and Right inputs of stereo tape deck.

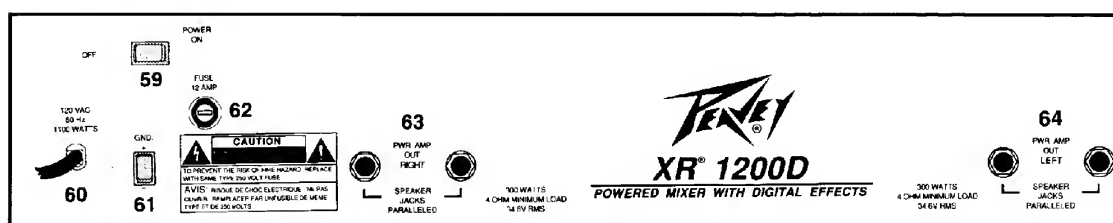
TAPE IN JACKS (57)

Provides Stereo inputs for signal supplied by Left and Right outputs of stereo tape deck or CD player.

HEADPHONE LEVEL (58)

Adjusts the left and right signal level to the headphone jack. Signal taken pre the left and right main faders.

REAR PANEL



POWER SWITCH (59)

Depress to "On" position to turn on.

LINE CORD (60)

For your safety, we have incorporated a three-wire line (mains) cable with proper grounding facilities. It is not advisable to remove the ground pin under any circumstances. If it is necessary to use the amp in a two-pin plug system without proper grounding facilities, suitable grounding adaptors should be used. Much less noise and greatly reduced shock hazard exists when the unit is operated with the proper grounded receptacles.

GROUND SWITCH (61)

Three position rocker-type switch which, in most applications, should be operated in its center or zero position. There may be some situations when audible hum and/or noise will come from the loudspeaker. If this situation arises, position the ground switch to either positive or negative (+ or -) or until the noise is minimized. NOTE: Should the noise problem continue, consult your Authorized Peavey Dealer, the Peavey Factory, or a qualified service technician. THE GROUND SWITCH IS NOT FUNCTIONAL ON 220/240 VOLT MODELS.

FUSE (62)

The fuse is located within the cap of the fuseholder. If the fuse should fail, IT MUST BE REPLACED WITH THE SAME TYPE AND VALUE IN ORDER TO AVOID DAMAGE TO THE EQUIPMENT AND TO PREVENT VOIDING THE WARRANTY. If the amp repeatedly blows fuses, it should be taken to a qualified service center for repair.

WARNING: THE FUSE SHOULD ONLY BE REPLACED WHEN THE POWER CORD HAS BEEN DISCONNECTED FROM ITS POWER SOURCE.

SPEAKER OUTPUT JACKS RIGHT (63)

Two parallel 1/4" jacks are provided at the output of each power amplifier. Minimum speaker load impedance is 4 ohms for each amplifier.

SPEAKER OUTPUT JACKS LEFT (64)

Two parallel 1/4" jacks are provided at the output of each power amplifier. Minimum speaker load impedance is 4 ohms for each amplifier.

MONO SYSTEM

USING LEFT MAIN, LEFT GRAPHIC EQ, AND LEFT POWER AMP FOR MAIN SYSTEM

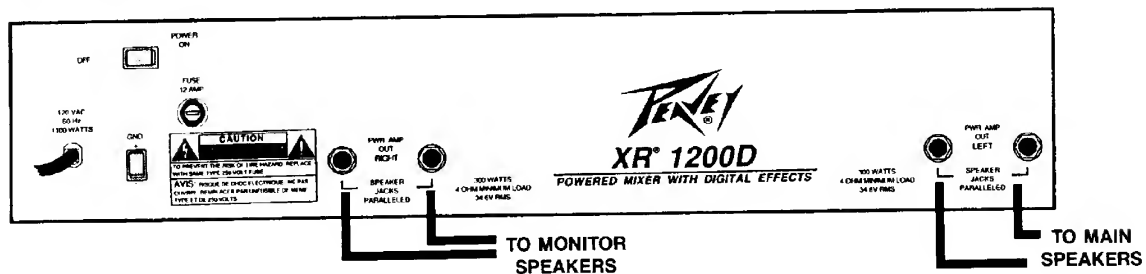
MONITOR SYSTEM USING RIGHT GRAPHIC EQ, AND RIGHT POWER AMP. (CONNECT MONITOR SPEAKERS TO RIGHT SPEAKER OUTPUT JACKS). MONITOR SYSTEM LEVEL CONTROLLED BY MASTER MONITOR A CONTROL AND CHANNEL MONITOR A CONTROLS.

MONITOR B CONTROLS ON CHANNEL AND MONITOR B MASTER ARE NONFUNCTIONAL.

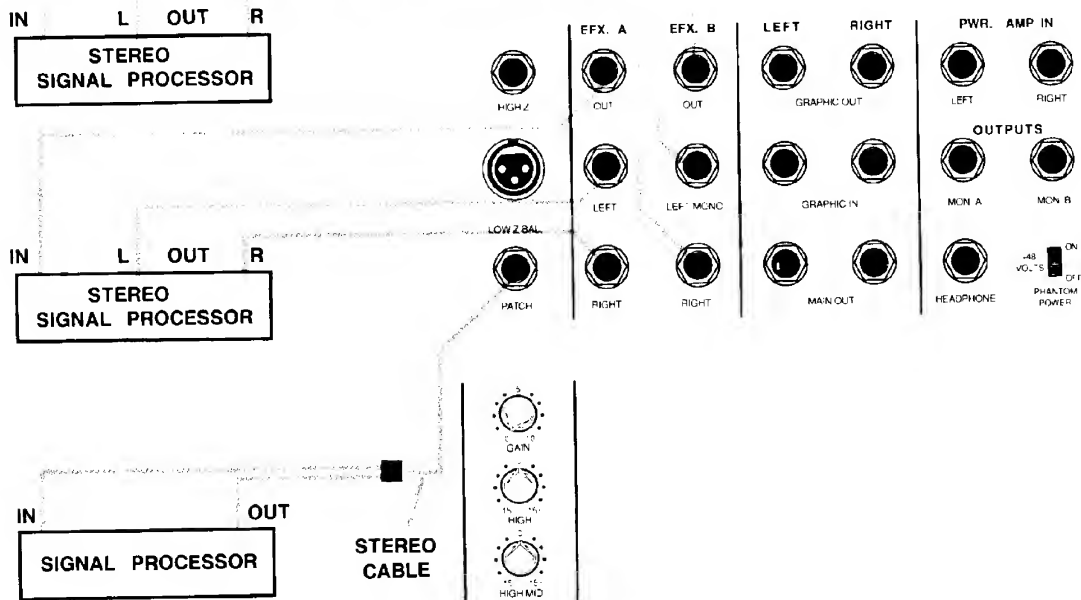
NOTE: RIGHT MASTER OUTPUT SLIDER WILL NOT FUNCTION WITH THIS SETUP.

LEFT MASTER OUTPUT SLIDER WILL FUNCTION AS OVERALL VOLUME CONTROL FOR MAIN SYSTEM.

REAR PANEL



EXTERNAL EFFECTS PATCH



XR-800D / XR-1200D / XR-1600D

All specifications are typical unless otherwise noted
0 dBV = 1 Volt
All specifications are referenced to nominal output level (0 dBV) unless otherwise noted.
All measurements are wide band 20 Hz unless otherwise stated.

CHANNEL

Equivalent Input Noise:

-118 dBV (150 ohm source)
(Mic Input to Channel Pre Send)

Frequency Response:

+0, -2 dB, 20 Hz to 30 kHz all EQ flat

Distortion:

Less than 0.02% @ 0 dB output
Typical .01% @ 0 dB output
(Mic input to L or R outputs, EQ flat, sliders at 0)

Input Impedance:

Low Z Bal = 2K ohms
High Z In = 8.6K ohms
Patch Return = 14K ohms

Output Impedance:

Patch Send = 47 kilohms

High EQ:

±15 dB @ 15 kHz minimum
Center detent flat ±2 dB

Mid High EQ:

±12 dB @ 2.2K minimum
Center detent flat ±2 dB

Mid Low EQ:

±12 dB @ 350 Hz minimum
Center detent flat ±2 dB

Low EQ:

±15 dB @ 60 Hz minimum
Center detent flat ±2 dB

Maximum Preamp Gain:

53 dB (Low Z Input to Patch Send)
39 dB (High Z Input to Patch Send)

Minimum Preamp Gain:

14 dB (Low Z to Patch Send)
0 dB (High Z to Patch Send)

Maximum Channel Gain:

(Pan at L or R, Slide @ max, EQ flat)
59 dB

Maximum Input Level:

Low Z Bal = +6 dBV, 2V RMS
High Z In = +6 dBV, 2V RMS
Patch Return = +18 dBV (8V RMS)

Maximum Output Level:

Patch Send = +18 dBV (8V RMS)

Nominal Input Level:

Low Z Bal = -30 dB, 70mV RMS
High Z In = -16 dBV, 160mV RMS
Patch Return = 0 dBV (1.0V RMS)

Headroom:

Nominal = 18 dB

Pan Characteristics:

2 dB down @ mid position

LED Level:

+12 dBV (5.6V RMS)

MASTER

LED Meter Calibration:

0 = 0 dBV (1.0V RMS)

LED Readout Range:

-21 dBV to +6 dBV (Left, Right)

Nominal Output Level:

L & R = +0 dBV (1.0V RMS)
Monitor A & B = +0 dBV (1.0V RMS)
Effects A & B = 0 dBV (1.0V RMS)

Nominal Headroom:

L & R = 18 dB
Monitor A & B = 18 dB
Effects A & B = 18 dB

Maximum Output Level:

L & R = +18 dBV (8V RMS)
Monitor A & B = +18 dBV (8V RMS)
Effects A & B = 18 dBV (8V RMS)

Output Impedance:

L & R = 47 kilohms
Monitor A & B = 47 kilohms
Effects A & B = 47 kilohms

Output Noise:

XR-800D

Residual: -103 dBV
(L & R Sliders Down)
Bus: -90 dBV
(All Channel sliders down, Effects Return Down, all Pan at middle)
Nominal: -77 dBV
(All Channels at 30 dB Gain, 150 Ohm Input, EQ Flat, Pan Middle, sliders at 0, All assigns at L & R, Effects Returns down)

XR-1200D

Residual: -103 dBV
(Left & Right Sliders Down)
Bus: -89 dB
(All Channel sliders Down, Effects Returns Down, all Pan at middle)
Nominal: -73 dBV
(All Channels at 30 dB Gain, 150 Ohm Input, EQ Flat, Pan Middle, Sliders at 0, All assigns at L & R, Effects Returns down)

XR-1600D

Residual: -103 dBV
(L & R Sliders Down)
Bus: -87 dBV
(All channel sliders down, Effects Returns down, all Pan at middle)
Nominal: -70 dBV
(All channels at 30 dB Gain, 150 ohm input, EQ flat, Pan middle, sliders at 0, all assigns at L & R, Effects Returns down)

Effects Return Input Impedance:

100K ohms

Effects Return Gain:

18 dB max

Headphone:

Stereo 8 ohm to 200 ohm nominal
Tip = Left, Ring = Right, Sleeve = Ground
500 mW total power
Less than 1% distortion

Phantom Power:

48V DC - switchable

GRAPHIC EQUALIZERS

(All sliders flat, 1.0V RMS unless noted)

Filter Bandwidth:

1 Octave

Filter Frequencies:

63,125,250,500,1K,2K,4K,8K,16K Hz

Maximum Boost & Cut:

±12 dB

Distortion: (THD)

.05% maximum

Frequency Response:

5 Hz to 40 kHz ±1 dB

Input Level:

Nom = 0 dBV (1.0V RMS)
Max = 18 dBV (8V RMS)

Output Level:

Nom = 0 dBV (1.0V RMS)
Max = 18 dBV (8V RMS)

Input Impedance:

100K ohms

Output Impedance:

POWER AMPLIFIER

Input Sensitivity:
1.0 volts (For rated output)

Output Power:
(@ 120V AC, 1kHz)

XR-800D

Single Amplifier: 200 watts @ 4 ohms
100 watts @ 8 ohms
Both Amplifiers: 200 watts @ 4 ohms
100 watts @ 8 ohms
2 ohm operation not recommended

XR-1200D / XR-1600D

Single Amplifier: 300 watts @ 4 ohms
150 watts @ 8 ohms
Both Amplifiers: 300 watts @ 4 ohms
150 watts @ 8 ohms
2 ohm operation not recommended.

Total Harmonic Distortion:

Less than 0.1% 100mV to Rated Power
20 Hz to 10 kHz, 4 ohms
(Typically below 0.05%)

Compression:
DDT™

Cooling:
Two speed fan cooling.

Protection:

Short and open circuit protection.
High temperature protection.
Primary fuses.

Frequency Response:

+0, -1 dB, 20 Hz to 20 kHz, at Rated
Power into 4 ohms

DDT™ Dynamic Range:

Greater than 23 dB

DDT™ Maximum THD:

Below 0.5% for 6 dB overload; below
1% for 16 dB overload

Hum & Noise:

83 dB below 300W (20 Hz - 20 kHz)

Power Requirements:

120 V AC, 1100 watts max

DIGITAL EFFECTS PROCESSOR

Reverberation Settings

32 Reverb Positions:

- 1 Bypass Setting
- 13 Warm Reverbs
- 13 Bright Reverbs
- 2 Gated Reverbs
- 2 Reverse Reverbs

Frequency Response

20 Hz to 11 kHz

Quantization:

16-Bit Linear PCM

Signal-To-Noise Ratio

95 dB minimum

Headroom

Active: -20 dB down from maximum
Limit: -6 dB down from maximum

DANGER
EXPOSURE TO EXTREMELY HIGH NOISE LEVELS MAY CAUSE A PERMANENT HEARING LOSS. INDIVIDUALS VARY CONSIDERABLY IN SUSCEPTIBILITY TO NOISE-INDUCED HEARING LOSS, BUT NEARLY EVERYONE WILL LOSE SOME HEARING IF EXPOSED TO SUFFICIENTLY INTENSE NOISE FOR A SUFFICIENT TIME.
THE U.S. GOVERNMENT'S OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) HAS SPECIFIED THE FOLLOWING PERMISSIBLE NOISE LEVEL EXPOSURES:

DURATION PER DAY IN HOURS	SOUND LEVEL dBA, SLOW RESPONSE
8	90
6	92
4	95
3	97
2	100
1	102
1/2	105
1/4	110
1/8	115

ACCORDING TO OSHA, ANY EXPOSURE IN EXCESS OF THE ABOVE PERMISSIBLE LIMITS COULD RESULT IN SOME HEARING LOSS.
IF EAR PLUGS OR PROTECTORS IN THE EAR CANALS OR OVER THE EARS MUST BE WORN WHEN OPERATING THIS AMPLIFICATION SYSTEM IN ORDER TO PREVENT A PERMANENT HEARING LOSS IF EXPOSURE IS IN EXCESS OF THE LIMITS AS SET FORTH ABOVE TO INSURE AGAINST POTENTIALLY DANGEROUS EXPOSURE TO HIGH SOUND PRESSURE LEVELS, IT IS RECOMMENDED THAT ALL PERSONS EXPOSED TO EQUIPMENT CAPABLE OF PRODUCING HIGH SOUND PRESSURE LEVELS SUCH AS THIS AMPLIFICATION SYSTEM BE PROTECTED BY HEARING PROTECTORS WHILE THIS UNIT IS IN OPERATION.

CAUTION

THIS MIXING CONSOLE EFFECTS DEVICE/REAMP HAS BEEN DESIGNED AND CONSTRUCTED TO PROVIDE ADEQUATE SIGNAL (VOLTAGE) FOR PLAYING MODERN MUSIC. IMPROPER USE OF THE GAIN/EQUALIZER CONTROLS AND/OR IMPROPER USE OF INTERNAL/EXTERNAL BUSES MAY CREATE CLIPPING (SQUARE WAVES) AND POSSIBLY CAUSE SURROUNDING DAMAGE TO THE LOUDSPEAKER SYSTEMS. EXTENDED OPERATION OF THE GAIN/EQUALIZATION CONTROLS IN THEIR MAXIMUM POSITIONS IS THEREFORE NOT RECOMMENDED. PLEASE BE AWARE THAT MAXIMUM POWER CAN BE OBTAINED WITH VERY LOW SETTINGS OF THE GAIN/EQUALIZATION CONTROLS IF THE INPUT SIGNAL IS VERY STRONG.
IT IS COMMON PRACTICE AMONG USERS OF SOUND REINFORCEMENT EQUIPMENT TO IDENTIFY THE NUMERICAL CHANNELS WITH A STRIP OF TAPE PLACED ABOVE OR BELOW THE ROW OF VOLUME FADERS. MANY TYPES OR BRANDS OF TAPE HAVE A VENTRILLOID SURFACE WHICH CAN INHIBIT THE PAINT ON THE FACE PLATE AND ACTUALLY REMOVE THE PAINT WHEN THE TAPE IS REMOVED. WE STRONGLY RECOMMEND THAT SCOTCH TAPE NOT BE USED ON PAINTED SURFACES NOR ANY OTHER TAPE THAT IS NOT SPECIALLY DESIGNED FOR SUCH APPLICATIONS. MEDICAL OR LIGHT ADHESIVE MARKING OR LABEL TAPE IS RECOMMENDED IF TAPE IS USED. ANY TAPE LEFT ON PAINTED SURFACE FOR EXTENDED PERIODS WILL BE DIFFICULT TO REMOVE. NEVER USE CLEAR OR SCOTCH TAPE FOR THESE APPLICATIONS.

1. Read all safety and operating instructions before using this product.
2. All safety and operating instructions should be retained for future reference.
3. Obey all cautions in the operating instructions and on the back of the unit.
4. All operating instructions should be followed.
5. This product should not be used near water, i.e. a bathtub, sink, swimming pool, wet basement, etc.
6. This product should be located so that its position does not interfere with its proper ventilation. It should not be placed flat against a wall or placed in a built-in enclosure that will impede the flow of cooling air.
7. This product should not be placed near a source of heat such as a stove, radiator or another heat producing amplifier.
8. Connect only to a power supply of the type marked on the unit adjacent to the power supply cord.
9. Never break off the ground pin on the power supply cord. For more information on grounding write for our free booklet "Shock Hazard and Grounding".
10. Power supply cords should always be handled carefully. Never walk or place equipment on power supply cords. Periodically check cords for cuts or signs of stress especially at the plug and the point where the cord exits the unit.
11. The power supply cord should be unplugged when the unit is to be unused for long periods of time.
12. If this product is to be mounted in an equipment rack, rear support should be provided.
13. Metal parts can be cleaned with a damp rag. The vinyl covering used on some units can be cleaned with a damp rag, or an ammonia based household cleaner if necessary.
14. Care should be taken so that objects do not fall and liquids are not spilled into the unit through the ventilation holes or any other openings.
15. This unit should be checked by a qualified service technician if:
 - A. The power supply cord or plug has been damaged.
 - B. Anything has fallen or been spilled into the unit.
 - C. The unit does not operate correctly.
 - D. The unit has been dropped or the enclosure damaged.
16. The user should not attempt to service this equipment. All service work should be done by a qualified service technician.

THIS LIMITED WARRANTY VALID ONLY WHEN PURCHASED AND REGISTERED IN THE UNITED STATES OR CANADA. ALL EXPORTED PRODUCTS ARE SUBJECT TO WARRANTY AND SERVICES TO BE SPECIFIED AND PROVIDED BY THE AUTHORIZED DISTRIBUTOR FOR EACH COUNTRY.
Ces clauses de garantie ne sont valables qu'aux Etats-Unis et au Canada. Dans tous les autres pays, les clauses de garantie et de maintenance sont fixées par le distributeur national et assurées par lui selon la législation en vigueur.

Diese Garantie ist nur in den USA und Kanada gültig. Alle Export-Produkte sind der Garantie und dem Service des Importeurs des jeweiligen Landes unterworfen. Esta garantía es válida solamente cuando el producto es comprado en E.U. continentales o en Canada. Todos los productos que sean comprados en el extranjero, están sujetos a las garantías y servicio que cada distribuidor autorizado determine y ofrezca en los diferentes países.

**PEAVEY ONE-YEAR LIMITED
WARRANTY/REMEDY**

PEAVEY ELECTRONICS CORPORATION ("PEAVEY") warrants this product, EXCEPT for covers, footswitches, patchcords, tubes and meters, to be free from defects in material and workmanship for a period of one (1) year from date of purchase, PROVIDED, however, that this limited warranty is extended only to the original retail purchaser and is subject to the conditions, exclusions, and limitations hereinafter set forth:

PEAVEY 90-DAY LIMITED WARRANTY ON TUBES AND METERS

If this product contains tubes or meters, Peavey warrants the tubes or meters contained in the product to be free from defects in material and workmanship for a period of ninety (90) days from date of purchase; PROVIDED, however, that this limited warranty is extended only to the original retail purchaser and is also subject to the conditions, exclusions, and limitations hereinafter set forth.

CONDITIONS, EXCLUSIONS, AND LIMITATIONS OF LIMITED WARRANTIES

These limited warranties shall be void and of no effect, if:

- The first purchase of the product is for the purpose of resale; or
- The original retail purchase is not made from an AUTHORIZED PEAVEY DEALER; or
- The product has been damaged by accident or unreasonable use, neglect, improper service or maintenance, or other causes not arising out of defects in material or workmanship; or
- The serial number affixed to the product is altered, defaced, or removed.

In the event of a defect in material and/or workmanship covered by this limited warranty, Peavey will:

- In the case of tubes or meters, replace the defective component without charge.
- In other covered cases (i.e., cases involving anything other than covers, footswitches, patchcords, tubes or meters), repair the defect in material or workmanship or replace the product, at Peavey's option; and provided, however, that, in any case, all costs of shipping, if necessary, are paid by you, the purchaser.

THE WARRANTY REGISTRATION CARD SHOULD BE ACCURATELY COMPLETED AND MAILED TO AND RECEIVED BY PEAVEY WITHIN FOURTEEN (14) DAYS FROM THE DATE OF YOUR PURCHASE.

In order to obtain service under these warranties, you must:

- Bring the defective item to any PEAVEY AUTHORIZED DEALER or AUTHORIZED PEAVEY SERVICE CENTER and present therewith the ORIGINAL PROOF OF PURCHASE supplied to you by the AUTHORIZED PEAVEY DEALER in connection with your purchase from him of this product.
If the DEALER or SERVICE CENTER is unable to provide the necessary warranty service you will be directed to the nearest other PEAVEY AUTHORIZED DEALER or AUTHORIZED PEAVEY SERVICE CENTER which can provide such service.

OR

- Ship the defective item, prepaid, to:

PEAVEY ELECTRONICS CORPORATION
International Service Center
326 Hwy. 11 & 80 East
MERIDIAN, MS 39301

including therewith a complete, detailed description of the problem, together with a legible copy of the original PROOF OF PURCHASE and a complete return address. Upon Peavey's receipt of these items:

If the defect is remedial under these limited warranties and the other terms and conditions expressed herein have been complied with, Peavey will provide the necessary warranty service to repair or replace the product and will return it, FREIGHT COLLECT, to you, the purchaser.

Peavey's liability to the purchaser for damages from any cause whatsoever and regardless of the form of action, including negligence, is limited to the actual damages up to the greater of \$500.00 or an amount equal to the purchase price of the product that caused the damage or that is the subject of or is directly related to the cause of action. Such purchase price will be that in effect for the specific product when the cause of action arose. This limitation of liability will not apply to claims for personal injury or damage to real property or tangible personal property allegedly caused by Peavey's negligence. Peavey does not assume liability for personal injury or property damage arising out of or caused by a non-Peavey alteration or attachment, nor does Peavey assume any responsibility for damage to interconnected non-Peavey equipment that may result from the normal functioning and maintenance of the Peavey equipment.

UNDER NO CIRCUMSTANCES WILL PEAVEY BE LIABLE FOR ANY LOST PROFITS, LOST SAVINGS, ANY INCIDENTAL DAMAGES, OR ANY CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PRODUCT, EVEN IF PEAVEY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

THESE LIMITED WARRANTIES ARE IN LIEU OF ANY AND ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE; PROVIDED, HOWEVER, THAT IF THE OTHER TERMS AND CONDITIONS NECESSARY TO THE EXISTENCE OF THE EXPRESSED, LIMITED WARRANTIES, AS HEREINABOVE STATED, HAVE BEEN COMPLIED WITH, IMPLIED WARRANTIES ARE NOT DISCLAIMED DURING THE APPLICABLE ONE-YEAR OR NINETY-DAY PERIOD FROM DATE OF PURCHASE OF THIS PRODUCT.

SOME STATES DO NOT ALLOW LIMITATION ON HOW LONG AN IMPLIED WARRANTY LASTS, OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU. THESE LIMITED WARRANTIES GIVE YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH MAY VARY FROM STATE TO STATE.

THESE LIMITED WARRANTIES ARE THE ONLY EXPRESSED WARRANTIES ON THIS PRODUCT, AND NO OTHER STATEMENT, REPRESENTATION, WARRANTY, OR AGREEMENT BY ANY PERSON SHALL BE VALID OR BINDING UPON PEAVEY.

In the event of any modification or disclaimer of expressed or implied warranties, or any limitation of remedies, contained herein conflicts with applicable law, then such modification, disclaimer or limitation, as the case may be, shall be deemed to be modified to the extent necessary to comply with such law.

Your remedies for breach of these warranties are limited to those remedies provided herein and Peavey Electronics Corporation gives this limited warranty only with respect to equipment purchased in the United States of America.

INSTRUCTIONS — WARRANTY REGISTRATION CARD

- Mail the completed WARRANTY REGISTRATION CARD to:

PEAVEY ELECTRONICS CORPORATION
POST OFFICE BOX 2898
MERIDIAN, MISSISSIPPI 39302-2898

- Keep the PROOF OF PURCHASE. In the event warranty service is required during the warranty period, you will need this document. There will be no identification card issued by Peavey Electronics Corporation.
- IMPORTANCE OF WARRANTY REGISTRATION CARDS AND NOTIFICATION OF CHANGES OF ADDRESSES:
 - Completion and mailing of WARRANTY REGISTRATION CARDS — Should notification become necessary for any condition that may require correction, the REGISTRATION CARD will help ensure that you are contacted and properly notified.
 - Notice of address changes — If you move from the address shown on the WARRANTY REGISTRATION CARD, you should notify Peavey of the change of address so as to facilitate your receipt of any bulletins or other forms of notification which may become necessary in connection with any condition that may require dissemination of information or correction.
 - You may contact Peavey directly by telephoning (601) 483-5365.



Features and specifications subject to change without notice.

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